

# Michigan DNR Fisheries Research in Saginaw Bay



Dave Fielder



# Saginaw Bay Fish Community Survey



Since 1989,  
gillnet survey

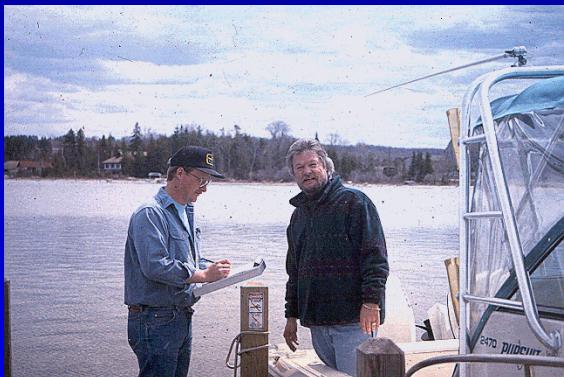


Since 1971,  
trawl survey





## Vital Statistics of Walleye (tagging study since 1983)



Creel Survey,  
since 1983



OTC based walleye  
stocking evaluations,  
since 1997





STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES

Number 29

August 2004

Strategy and Options for Completing the Recovery  
of Walleye in Saginaw Bay, Lake Huron

David G. Fielder  
and  
James P. Baker



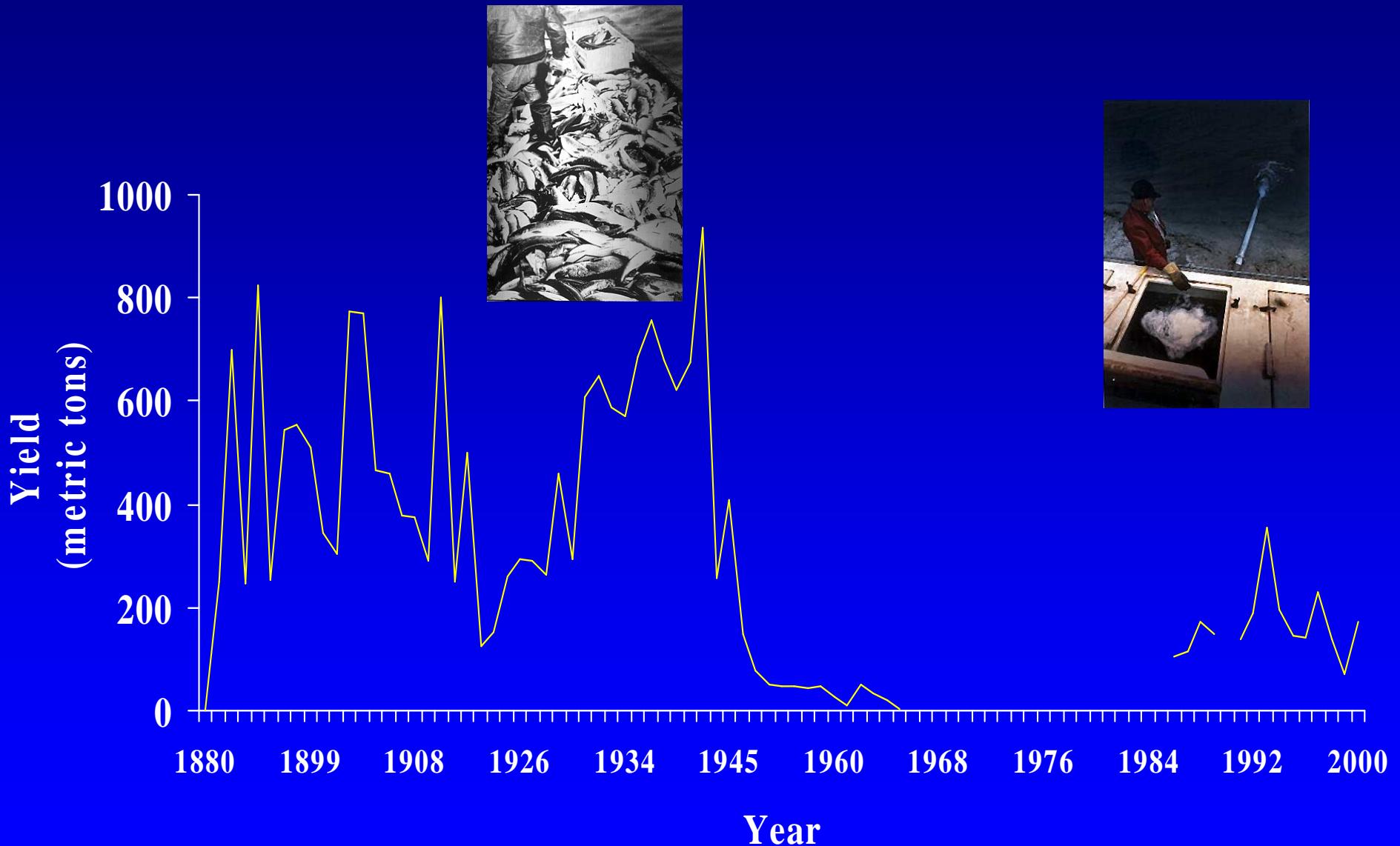
NASA Photo

[www.michigan.gov/dnr](http://www.michigan.gov/dnr)

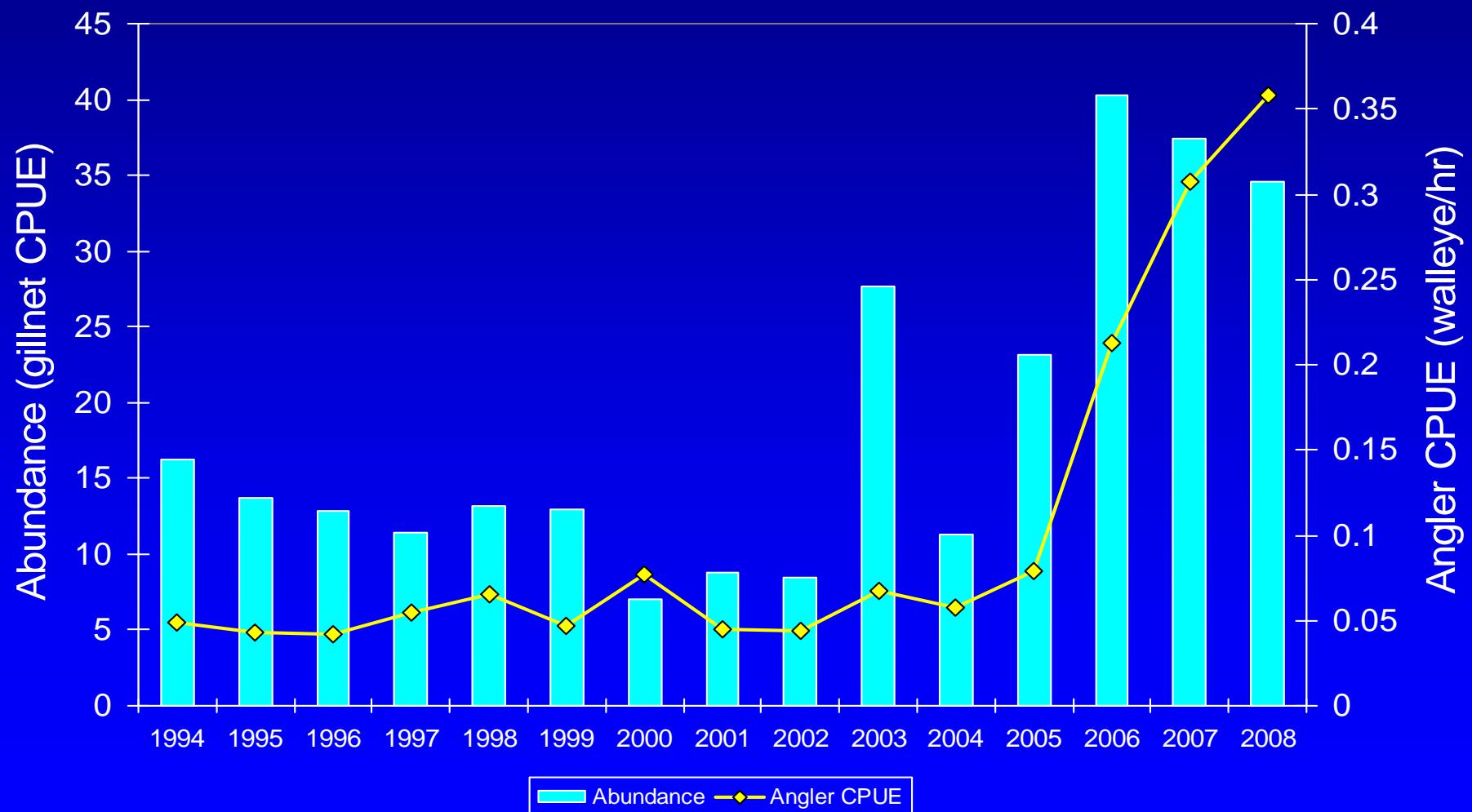
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FISHERIES DIVISION  
SPECIAL REPORT

# Walleye Yield from Saginaw Bay

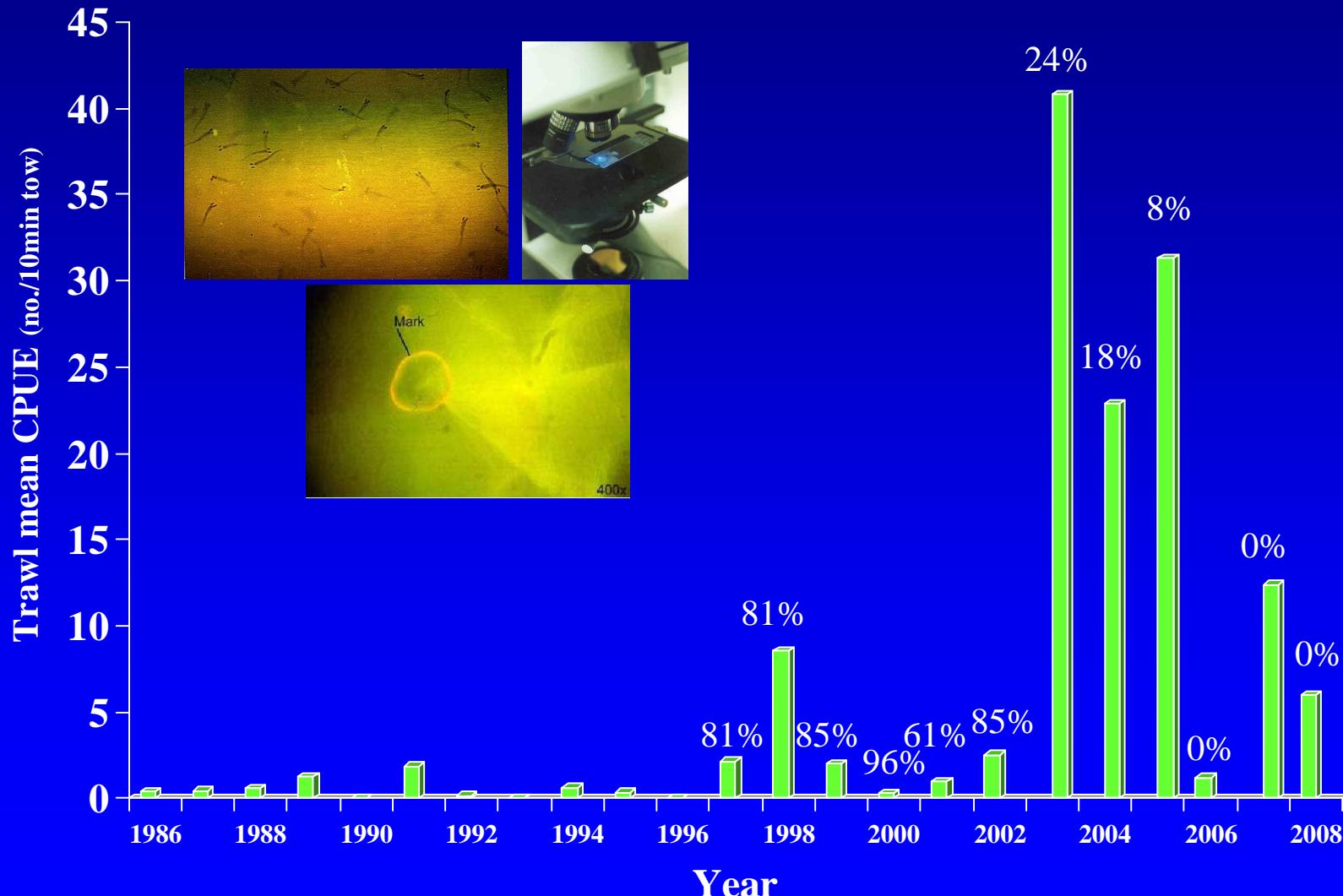


## Saginaw Bay Walleye Open Water Angler Catch Rate and Abundance of Walleye from the Gillnet Survey 1994 - 2008

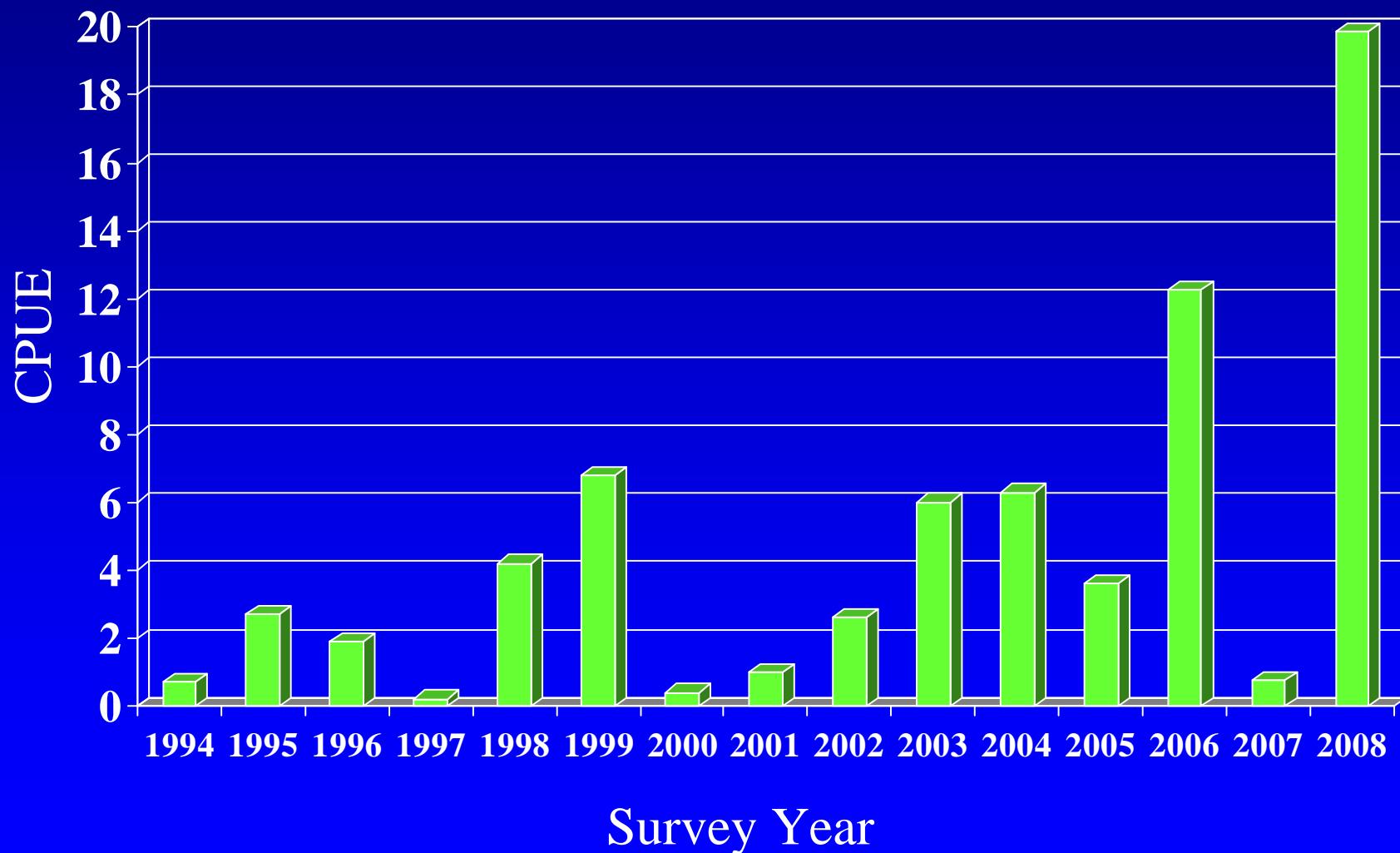


# Age-0 Walleye Trawl CPUE Saginaw Bay

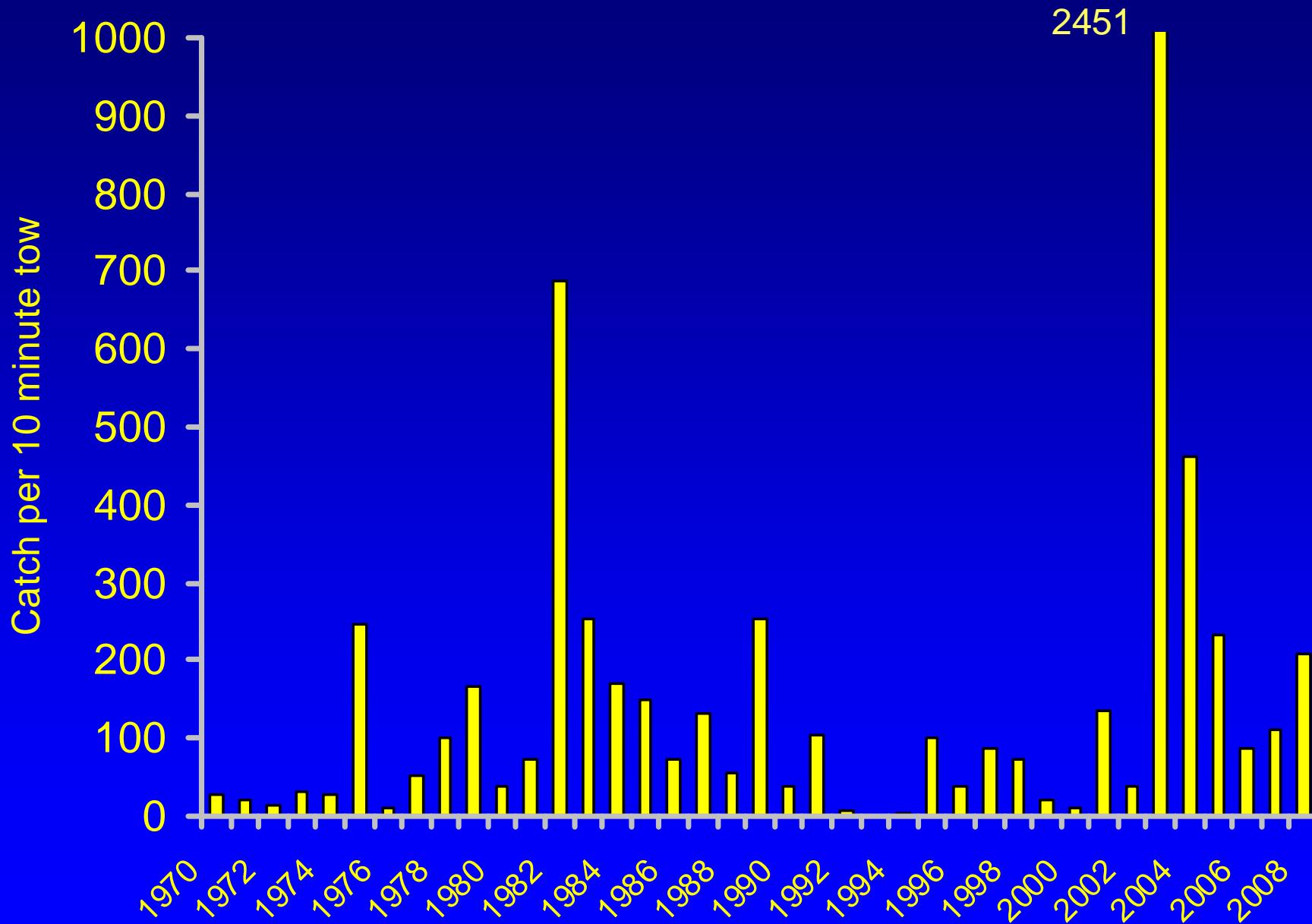
And percent hatchery contribution



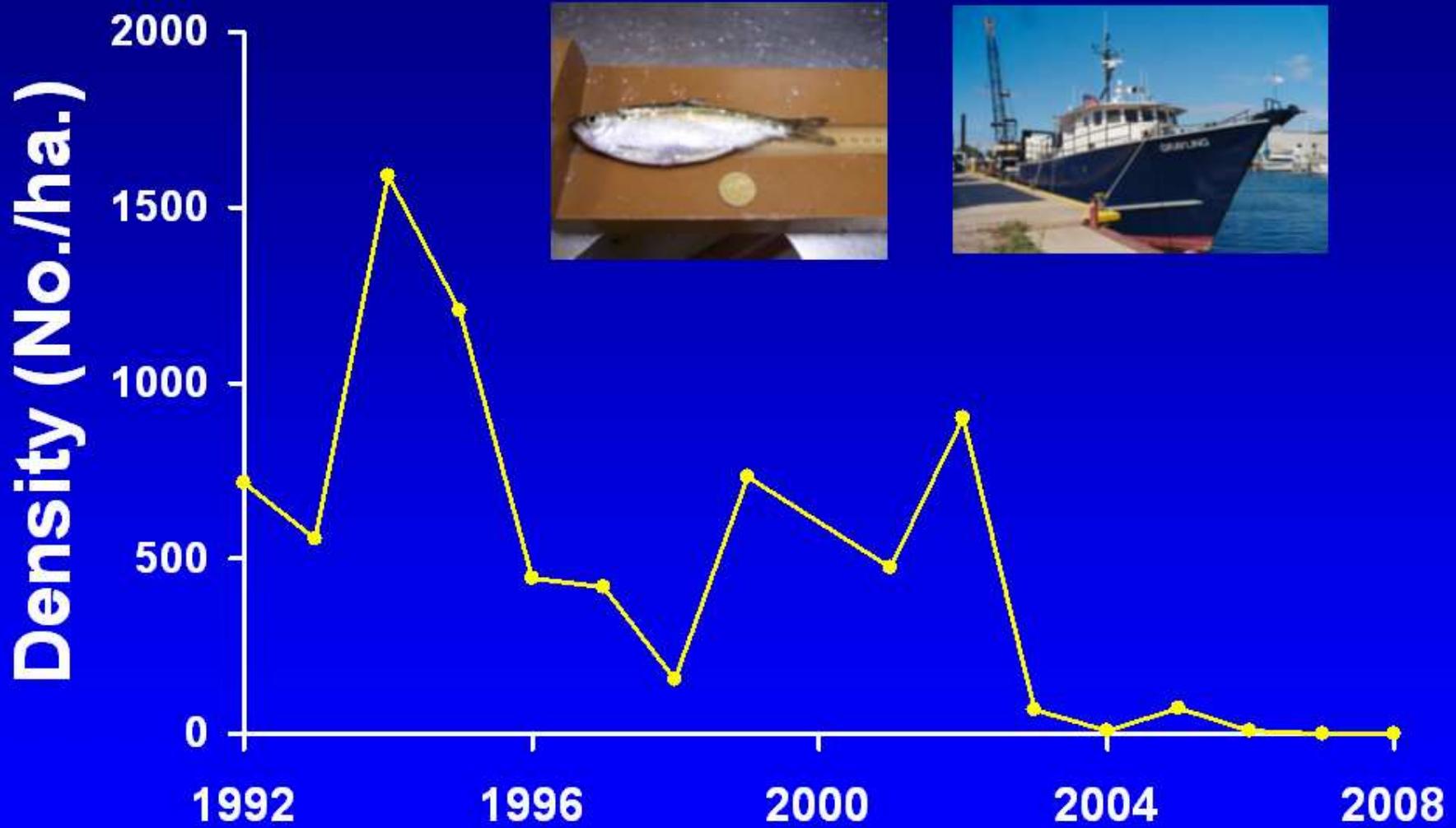
# Yearling Walleye CPUE from Saginaw Bay Gillnet Collections



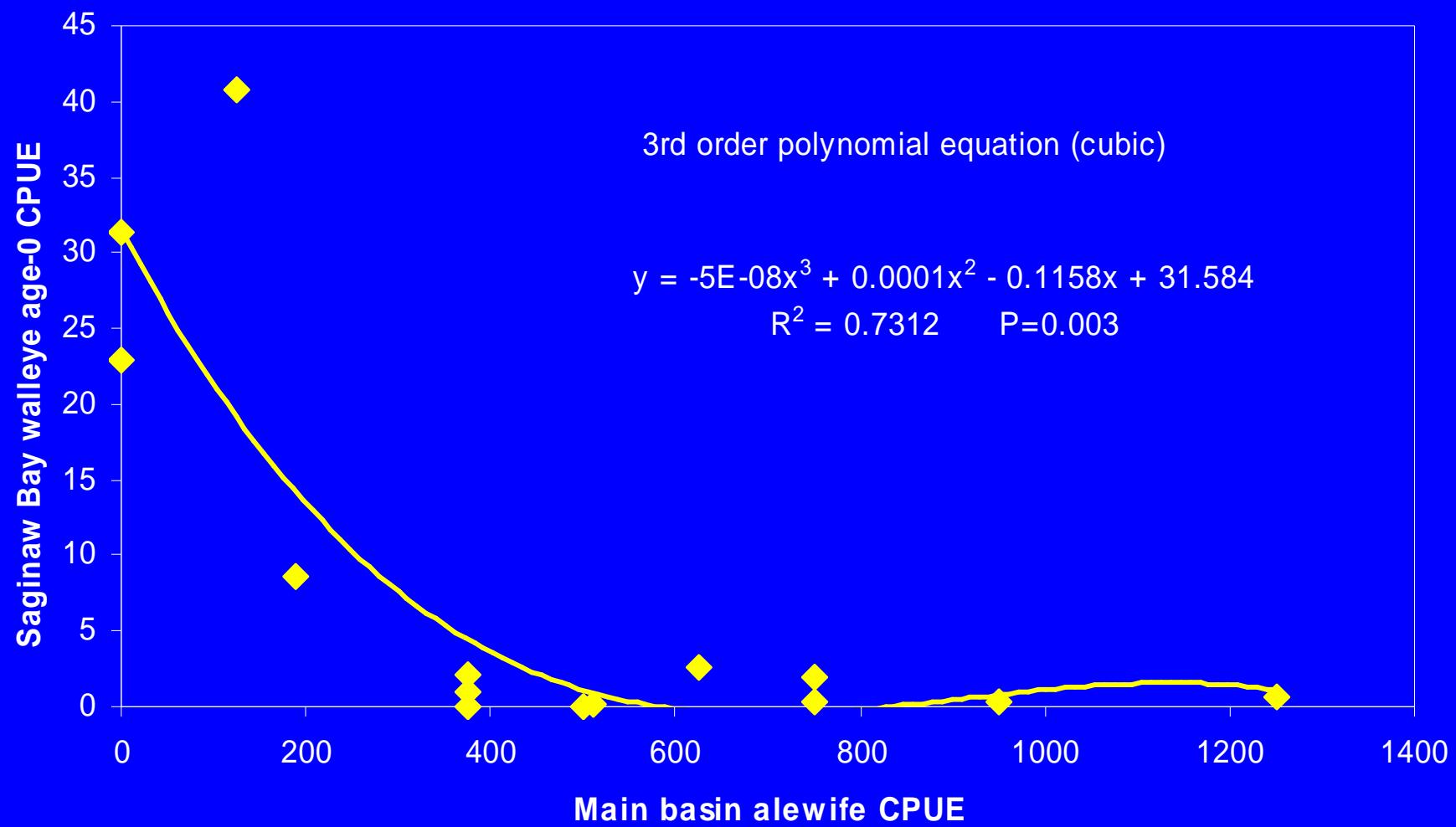
# Mean Trawl CPUE for YOY Yellow Perch



# Adult Alewife



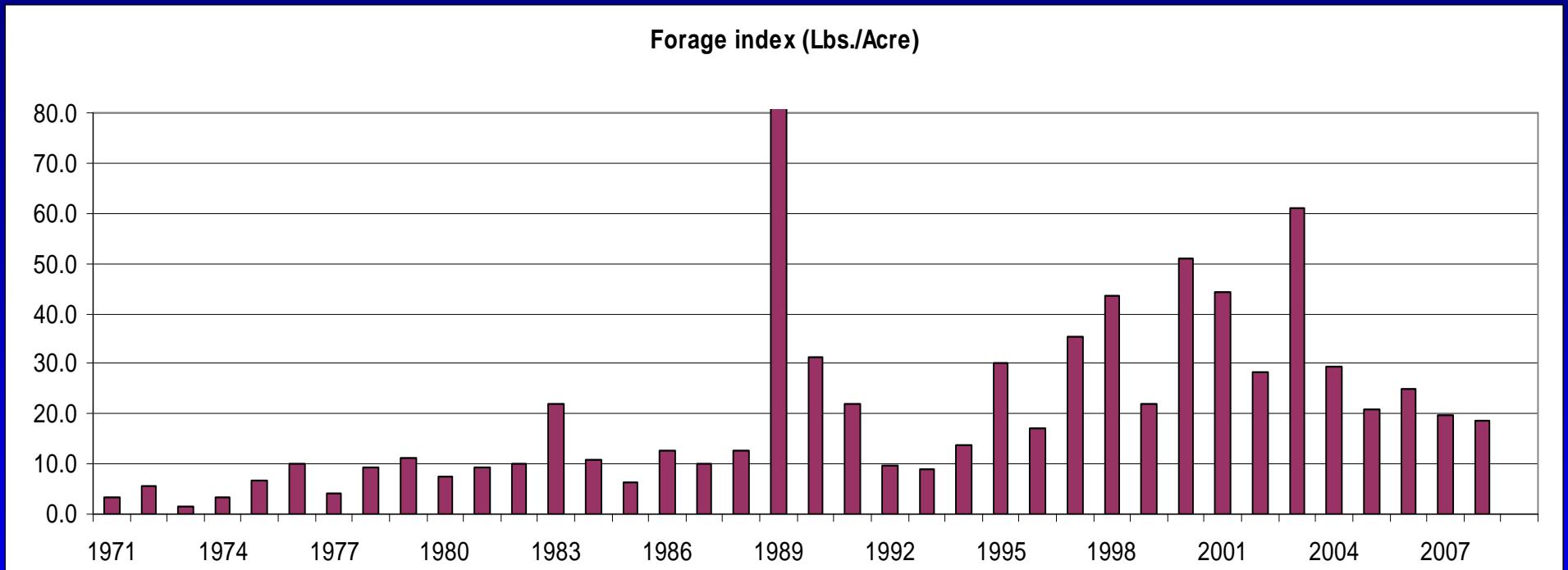
### Saginaw Bay Walleye Age-0 abundance as a Function of Trends in Lake Huron Main Basin Alewife Abundance



## Walleye Age-3 Mean Length at Capture (mid Sept.)

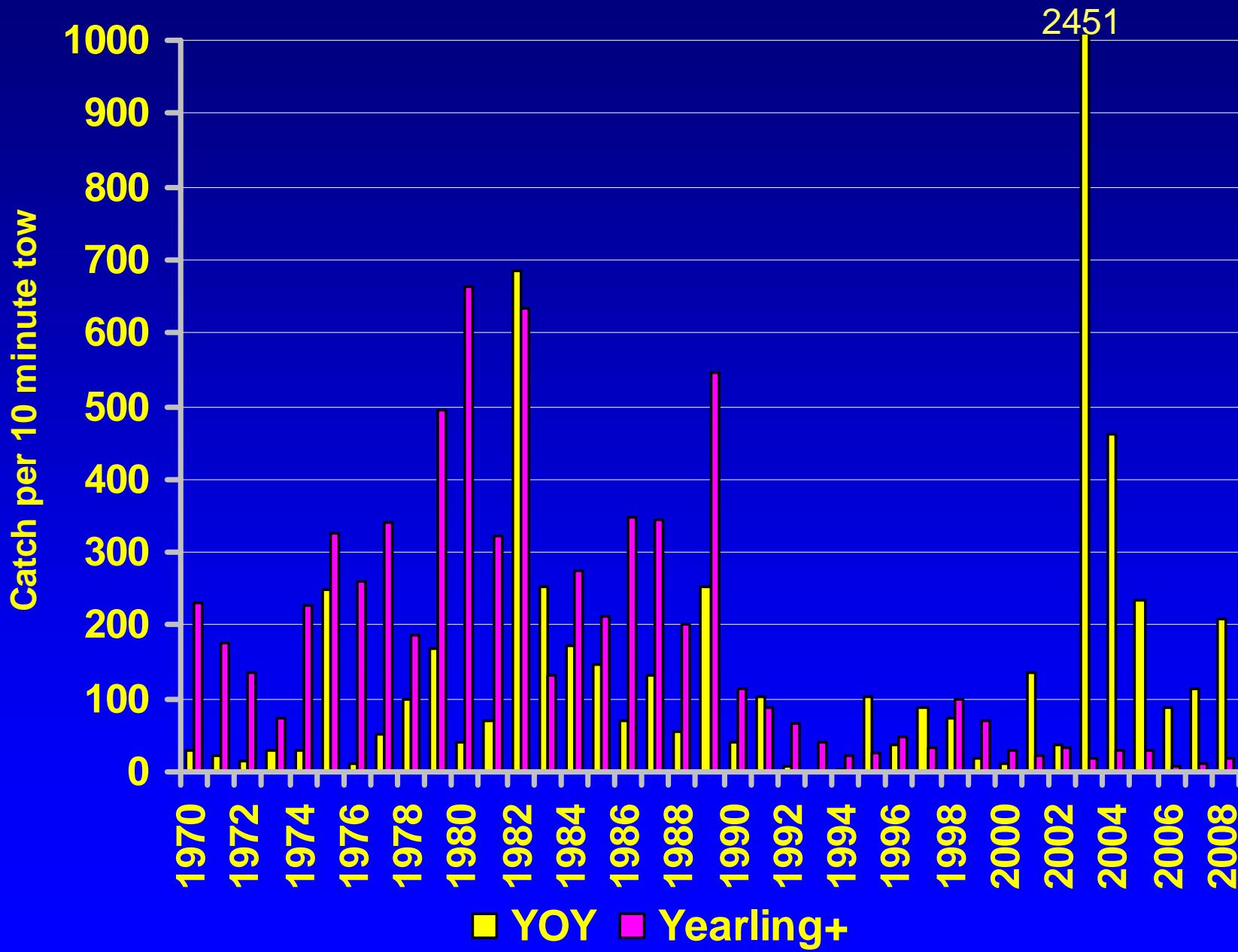


# Forage Index Biomass Based on Fall Trawls

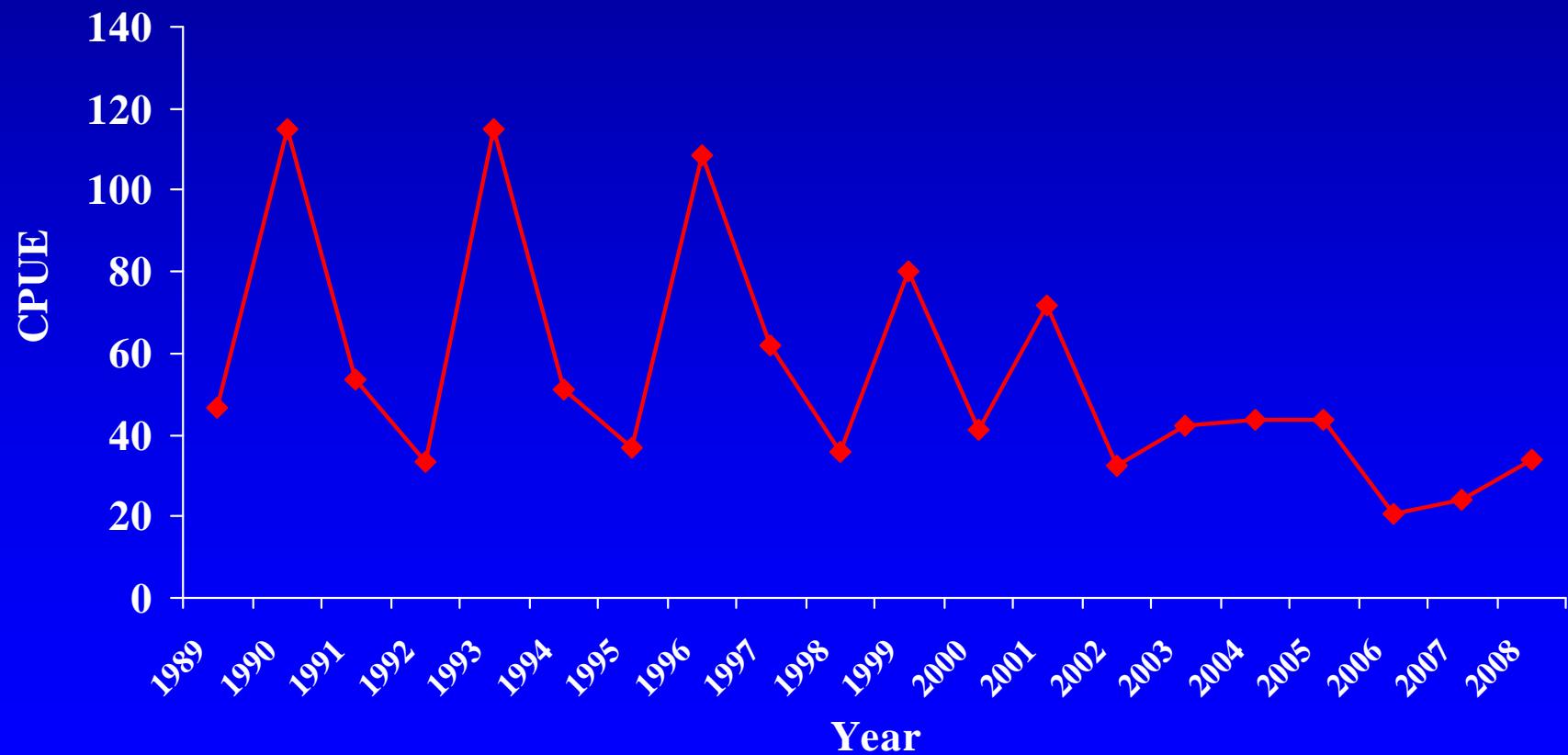


Forage index species include: Alewife, Emerald shiner, Gizzard Shad, Smelt, Spottail shiner, Round goby, Trout-perch, White bass, White perch, Age 0 Yellow Perch

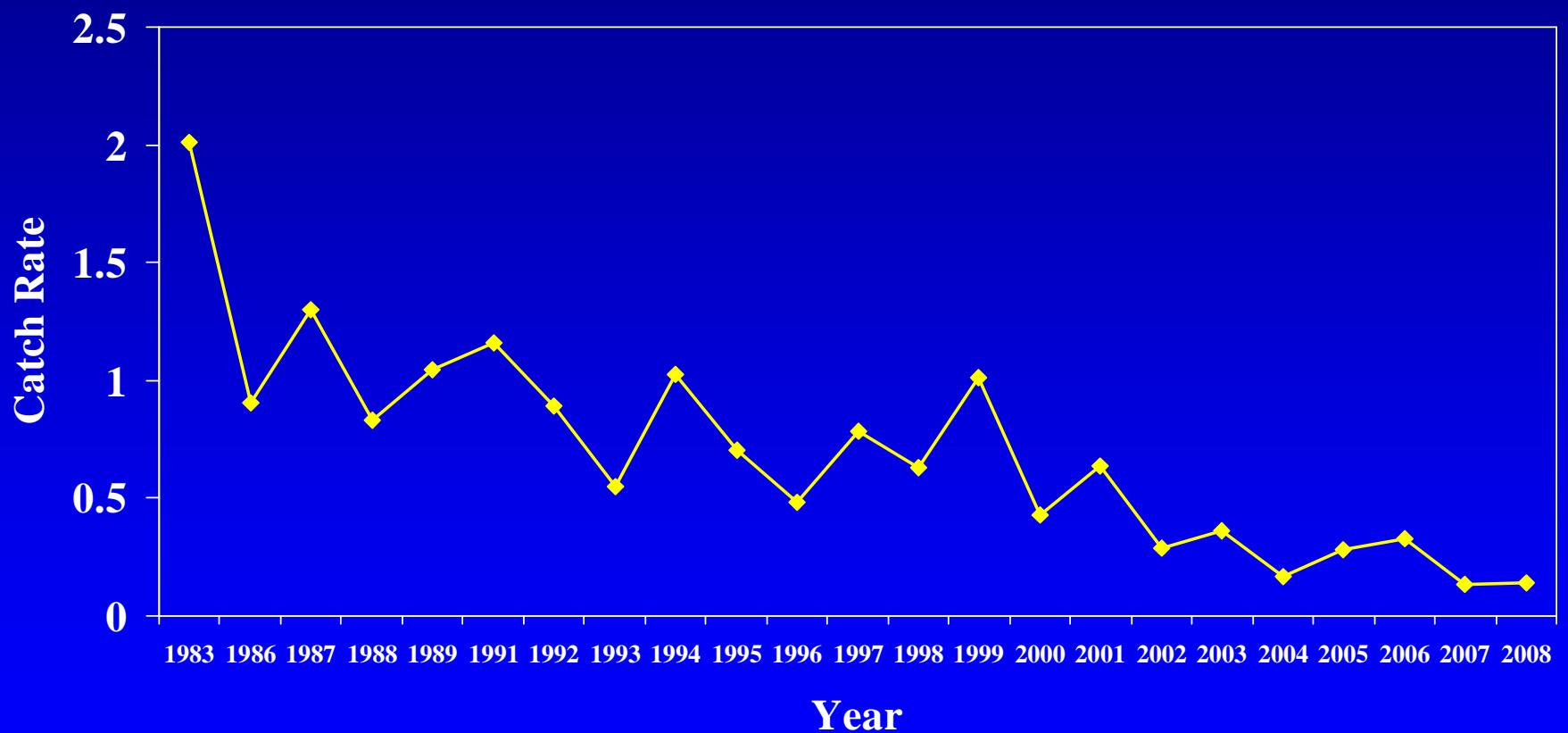
# Mean CPUE for YOY and Age 1+ YP



# Trends in Abundance (gillnet CPUE) of Yellow Perch from Saginaw Bay

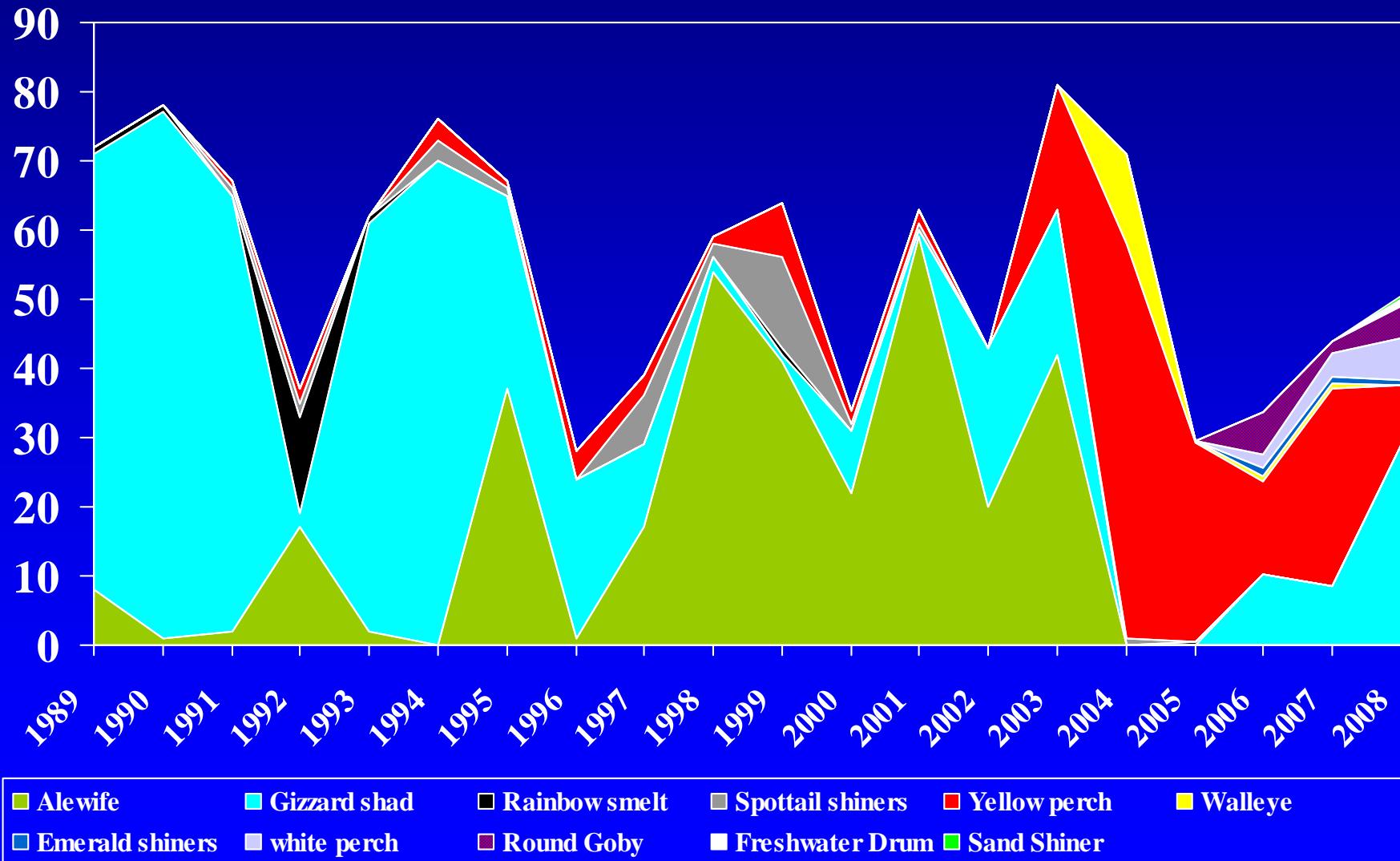


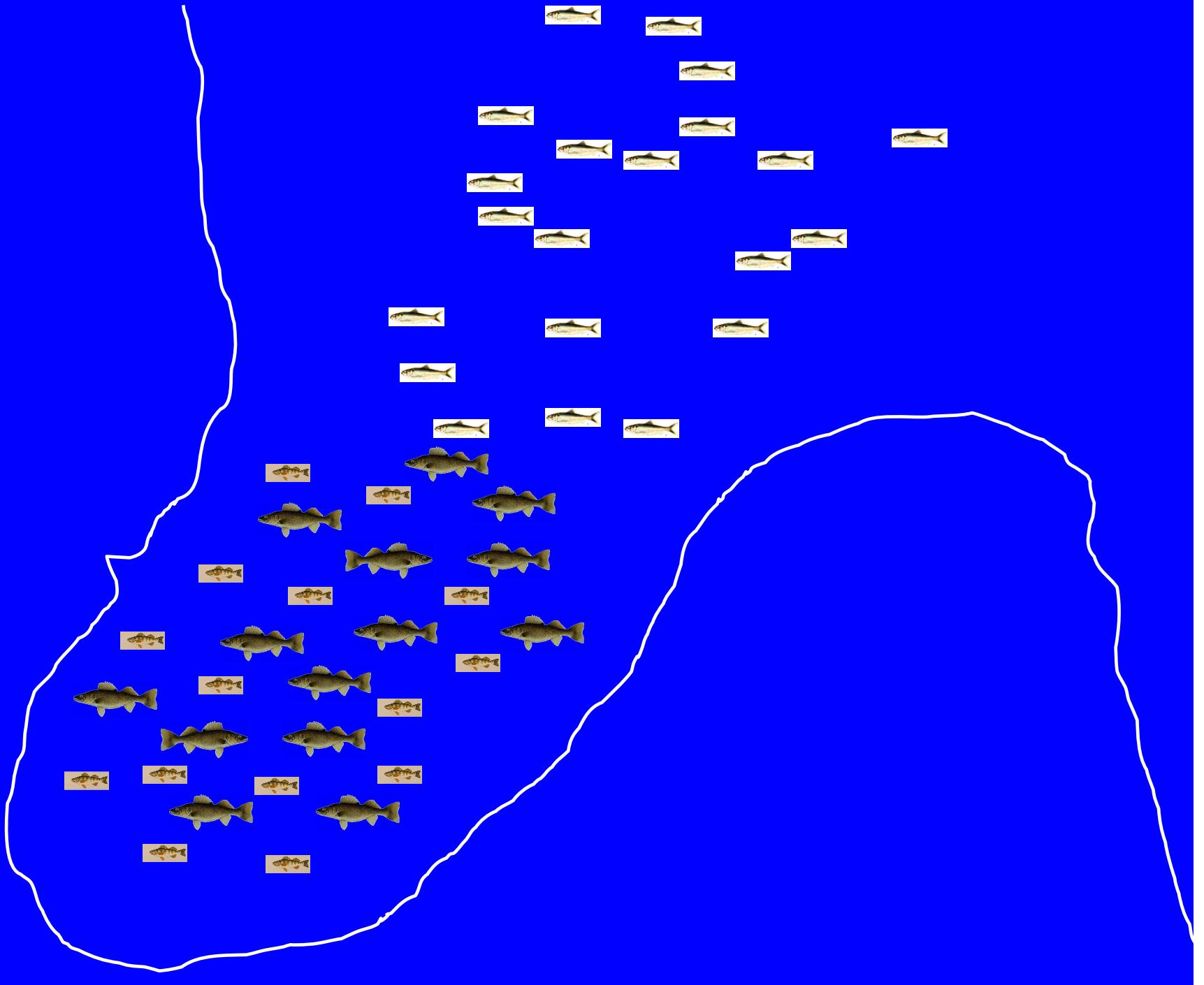
# Saginaw Bay Yellow Perch Open Water Angler Catch Rate



# Walleye Diet from Fall Samples 1989 – 2008

# Percent-Abundance of Food Item by Type





## Mean length - Age 0 yellow perch

